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NPIC/P&DS/D/6-828 8 Harch 1966

MEMORANDUM POR:	Chief, Production	n Services	Division,	NPIC
SUBJECT:	High Resol (Printer # 2)	ution Step	and Repeat	Printer

- 1. Recently tests have been conducted at the contractor's plant by P&DS to determine the resolution capability of the breadboard for printer # 2. Using an Air Force three-bar high contrast 800 1/mm target, a series of tests were run on type 8430 film. Results varied from group 8 step 1 (317 1/mm) to group 8 step 3 (397 1/mm) giving an average of about 350 1/mm.
- 2. The contractor claims that by using an optically flat platen with good ultra violet transmission characteristics and better light collimation that the first model will readily achieve 400 1/mm on type 8430 film. This claim appears to be technically feasible and reasonable.
- 3. In essence the first model of printer # 2 will be a high resolution step and repeat printer capable of attaining 400 1/mm resolution on type 8430 film, printing frames up to 30 inches in length and up to 9% inches in width, and incorporating a frame sensing device for automatic operation. The frame sensing device has been tested successfully for printer # 1 at CDMRADA.
- 4. The step and repeat contact printer demonstrates the following advantages in advancing the state-of-the-art with respect to contact printing.
 - a. The ability to produce uniform exposure over a full 30 inch frame is accomplished by the use of a unique traveling mercury vapor light source. The traveling light source (slit) also provides automatic exposure control.
 - b. The unusual approach of a rolling air bag provides uniform contact between the negative and printing stock and therefore results in a higher resolution flat-bed contact printer than any previous flat-bed printers utilizing a stationary air bag.
 - c. It provides a significant first step in the partial automation of multi-duplication of selected exposures on a given roll.

GROW 1 Excluded from automatic

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5. To date MFIC has expended on printer # 2 and	25
GIMRADA on printer # 1. The funds required to complete	
printer # 2 are for printer # 1. All costs	
related to printer # 1 will be paid by GIMRADA. Before PaDS can made a final decision whether to cancel the contract for printer # 2 or	
approve an overrun/change in scope of to complete the first	0.5
model it would be helpful to have a definite recommendation from PSD -	25
the ultimate user.	
There are three alternatives:	
(1) Cancel the contract and receive no equipment.	
Termination costs would probably be at least above	25
the already expended.	20.
(2) Complete the first model printer and operationally	
test in PSD.	
(3) Complete the first model printer, and under the direction of P&DS test and de-bug at Westover, or a commercial facility and upon demonstrated acceptable performance turn over to PSD for operational use.	
6. We would appreciate your advising us as to your recommendations on the alternatives presented in paragraph 5. by 11 March in order that our contract monitor, who will be visiting on 14 March,	25
may initiate the proper course of action.	20
Colonel, USAF	25)
Distribution:	
Orig & 1 - Addressee	
1 - J.A.P. 2 - DB/PSD3 (99711-3)	
NPIC/P&DS/DB? (2 Mar 1966)	

Approved Release 2005/06/23 : CIA-RDP78B04-270A001600020005-96 270 277 1 6 AUG 1967 Date: (To be completed and returned to OL/PD/CA&SB/CAS within 5 working days) PART VI: SPONSORING TECHNICAL OFFICE Technical Office NPIC Project Monitor 25 ame of Contractor: Evaluation of contractor's facilities: 7 Excellent Good / Fair / Poor Qualifications of technical personnel assigned to Agency В. projects: 7 Excellent 7 Good Fair Results obtained by contractor in research and development: 7 Excellent 7 Good / Fair Poor D. Results obtained by contractor in production type contracts: (NA) / Excellent Good / Fair / Poor E. Timeliness of results, reports or production: / Excellent 7 Good 7 Fair Poor F. Responsiveness to technical control: 7 Excellent 7 Good Poor 7 Fair

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Comments:

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PART VI: SPONSORING TECHNICAL OFFICE (cont'd)

Over-all numerical evaluation of contractor (see scale below): 5

Scale

10 - Outstanding

9 & 8 - Excellent

7 & 6 - Satisfactory

5 - Fair

4 & 3 - Marginal

2 & 1 - Poor

If this contractor has only furnished you with standard stock items and you do not wish to evaluate him, please check this box / and return this form.

SPEED LETTER NPIC OLPHOAS Pls review attached request & makate concurrence applicable comments below. Thankyon! REPLY The attached "request for publication release has been reviewed by The undersigned. There is no objection on part to release this item for publication provided the first sentance in the last paragraph is charged to read! The photo Junter will be primarily used to make high quality Junto of Shotographic transporiences while safeguarding the original photograph. Approved For Release 2005/**መፅ/**2ው፣«CIA ዌᡚΡ78/B04770A001600020005-9

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